

2M/BOT-150(Th) Syllabus-2023

2026

(May-June)

FYUP : 2nd Semester Examination

BOTANY

(Major)

**(Plant Diversity—II, Gymnosperm and
Paleobotany, Angiosperm, Morphology,
Plant Anatomy)**

(BOT-150)

(**Theory**)

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions.*

Answer Question No. **1** which is compulsory and
one question from each Section

1. Write short notes on the following : 4×4=16

- (a) Megasporophyll of *Cycas*
- (b) Aestivation
- (c) Tunica corpus theory
- (d) Geological timescale

SECTION—I

2. Describe the development of male and female gametophytes in *Pinus*. Support your answer with diagrams. 5+5=10
3. What are fossils? Describe the different types of plant fossils. 2+8=10

SECTION—II

4. Define inflorescence. Describe the different types of racemose inflorescence. 1+9=10
5. Write short notes on the following : 5×2=10
- (a) Forms of corolla
- (b) Placentation types

SECTION—III

6. With the help of suitable diagrams, describe the following : 5×2=10
- (a) Anomalous secondary growth in *Bignonia*
- (b) Anomocytic and anisocytic types of stomata
7. Describe root-stem transition in angiosperms with diagrams. 10

SECTION—IV

8. Describe the organization of shoot apical meristem in angiosperms. 10
9. Write notes on the following : 5×2=10
- (a) Types of seeds
- (b) Classification of gymnosperms according to Coulter and Chamberlain
